

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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CCGGGCCCCGGCCGCCGTGCGGGGACCCCGTGCCCGGCCGCCGTGCCACCGCCGCCCGGGCCGACCGAG  
 GGACCCGCCCCGCGCGGCTGCTCCGGACCTAGAGGATCAAGTCATAATGGGAGCATTTTGTAGACAAGCC  
 AAAGATGGAGAAGCATAATGCCCAGGGGAGGGGAATGGGTTACGATACGGCCTAAGCAGCATGCAAGGT  
 TGGCGAGTTGAAATGGAGGACGCACACACGGCTGTGATCGGTTTGCCAAGTGGACTTGAGACATGGTCAT  
 TCTTTGCTGTATATGATGGGCATGCTGGTTCTCAGGTTGCCAAATACTGCTGTGAGCACTTGTTAGATCA  
 CATCACCAATAACCAGGATTTTCAGAGGATCTGCAGGAGCACCTTCTGTGGAGAACGTAAAGAATGGAATC  
 AGAACAGGGTTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGAGAAGAAACATGGTGCAGATAGAA  
 GCGGGTCAACAGCTGTGGGCGTCTTAATCTCTCCCCAACATACTTATTTTCATTAACGTGGGAGACTCGAG  
 AGGTTTACTTTGTAGGAATAGAAAAGTTCACTTCTTCACACAAGACCATAAACCAAGTAACCCGCTGGAA  
 AAAGAACGAATTCAGAATGCAGGGGGCTCGGTGATGATTCAGCGTGTCAATGGCTCTCTGGCTGTATCGA  
 GGGCCCTTGGGGATTTTCGATTACAAATGTGTCCATGGAAAAGGTCCACAGAGCAGCTTGTCTCCCCAGA  
 GCCCGAAGTCCATGATATTGAAAGGTCTGAAGAAGATGACCAGTTCATCATCCTTGCATGCGATGGCATC  
 TGGGACGTCATGGGGAACGAAGAGCTCTGTGACTTTGTGAGATCCAGACTTGAAGTCACTGATGACCTTG  
 AGAAAGTTTGAATGAAGTAGTCGACACCTGCTTGTATAAGGGAAGTCGAGACAACATGAGTGTGATTTT  
 GATCTGTTTTTCCAAGTGCACCCAAAGTCTCGGCAGAGGCGGTGAAGAAGGAGGCGGAGCTGGACAAGTAC  
 CTGGAGAGCAGAGTAGAAGAAATCATAAAGAAGCAGGTGGAAGGCGTCCCTGACTTAGTCCACGTGATGC  
 GCACGTTAGCCAGTGAGAACATCCCCAGCCTCCCACCAGGGGGTGAATTGGCAAGCAAGCGGAATGTAAT  
 TGAAGCCGTTTACAATAGACTGAACCCCTTACAAAATGACGACACTGATTCTGCGTCAACCGATGATATG  
 TGGTAAAGCCGCTCACCAGCCGTGGACTCACCTTCGCCTGCAAAGGGGAAGCCAGCTCATCCTTGCCGA  
 GCCTTTACCATCCATCACCAGCTTCACAGGAGGGTCTGACACGGGTGAGGACTGCAG (SEQ NO:1)

MGAFLDKPKMEKHNAQQQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLE  
 TWSFFAVYDGHAGSQVAKYCCEHLLDHITNNQDFRGSAGAPSVENVKNGIRTG  
 FLEIDEHMRVMSEKKHGADRSGSTAVGVLISPQHTYFINCGDSRGLLCRNKRKH  
 FFTQDHPKSPNLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKGP  
 EQLVSPEPEVHDIERSEEDDQFIILACDGIWDVMGNEELCDFVRSRLEVTDDEK  
 VCNEVVDTCLYKGSRDNMSVILICFPSAPKVSAAEVKKEAELDKYLESRVEEIK  
 KQVEGVDPDLVHVMRTLASENIPSLPPGELASKRNVIEAVYNRLNPYKNDDTDS  
 ASTDDMW (SEQ ID NO:2)

FIGURE 1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

CCCGGGCCCCGGCCCGCTCGCGGGACCCCGTGCCCGGCCGCGCTCGCCACCGCCGCCCGG  
 GCCGACCGAGGGACCCGCCCGCCCGGGCTGCTCCGG [ACCTAGAGGATCAAGTCATAATG  
 GGAGCATTTT TAGACAAGCCAAAGATGGAGAAGCATAATGCC] AGGGGCAGGGGAATGGG  
TTACGATACGGCCTAAGCAGCATGCAAGGTTGGCGAGTTGAAATGGAGGACGCACACACG  
GCTGTGATCGGTTTGCCAAGTGGACTTGAGACATGGTCATTCTTTGCTGTATATGATGGG  
CATGCTGGTTCTCAGGTTGCCAATA [CTGCTGTGAGCACTTGTTAGATCACATCACC AAT  
 AACCAGGATTT CAGAGGATCTGCAGGAGCACCTTCTGTGGAGAACGTAAAGAATGGAATC  
 AGAACAGGGTTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGAGAAGAAACATGGT  
 GCAGATAGAAGCGGGTCAACAGCTGTGGGCGTCTTAATCTCTCCCAACATACTTATTTT  
 ATTAAC TGTGGAGACTCGAGAGGTTTACTTTGTAGGAATAGAAAAGTTCAC TTCTTCACA  
 CAAGACCATAAACCAAGTAACCCGCTGGAAAAAGAACGAATTCAGAATGCAGGGGGCTCG  
 GTGATGATT CAGCGTGTCAATGGCTCTCTGGCTGTATCGAGGGCCCTTGGGGATTTTCGAT  
 TACAAATGTGTCCATGG] AAAAGGTCCCACAGAGCAGCTTGTCTCCCCAGAGCCCGAAGTC  
 CATGATATTGAAAGGTCTGAAGAAGATGACCAGTTCATCATCCTTGCATGCGATGGCATC  
 TGGGACGT CATGGGGAACGAAGAGCTCTGTGACTTTGTGAGATCCAGACTTGAAGTCACT  
 GATGACCTTGAGAAAGTTTGCAATGAAGTAGTCGACACCTGCTTGTATAAGGGAAGTCGA  
 GACAACATGAGTGTGATTTTGATCTGTTTTCCAAGTGCACCCAAAGTCTCGGCAGAGGCG  
 GTGAAGAAGGAGGCGGAGCTGGACAAGTACCTGGAGAGCAGAGTAGAAGAAATCATAAAG  
 AAGCAGGTGGAAGGCGTCCCTGACTTAGTCCACGTGATGCGCACGTTAGCCAGTGAGAAC  
 ATCCCCAGCCTCCCACCAGGGGGTGAATTGGCAAGCAAGCGGAATGTAATTGAAGCCGTT  
 TACAATAGACTGAACCCTTACAAAAATGACGACACTGATTCTGCGTCAACCGATGATATG  
 TGGTAAAGCCGCTCACCCAGCCGTGGACTCACCTTCGCCTGCAAAGGGGAAGCCAGCTCA  
 TCCTTGCCGAGCCTTTACCATCCATCACC GACTTCACAGGAGGGTCTGACACGGGTGAGG  
 ACTGCAG

FIGURE 2A

